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APPLICATION NO.		FILING DATE	- · ·	FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/669,322		09/25/2003		John Emmett Riordan III		1137-11	4132	
23117	7590	11/07/2006				EXAM	IINER	
NIXON & VANDERHYE, PC						SCHNEIDER, CRAIG M		
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203						ART UNIT	PAPER NUMBER	
				_	3753			
						DATE MAIL ED. 11/07/2007		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/669,322	RIORDAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Craig M. Schneider	3753	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address	
• •		ONTH(S) OF THEFTY (20) DAVE	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC  R 1.136(a). In no event, however, may a re n. eriod will apply and will expire SIX (6) MONT tatute, cause the application to become AB/	CATION.  uply be timely filed  ITHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	28 September 2006.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is non-final.		
3) Since this application is in condition for all	owance except for formal matte	ers, prosecution as to the merits is	
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1,2 and 4-17</u> is/are pending in the	e application.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.		•	
6) Claim(s) 1,2 and 4-17 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction at	nd/or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Exar	miner.	•	
10) $\boxtimes$ The drawing(s) filed on $3/14/06$ is/are: a)		by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	rrection is required if the drawing(	s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docun	nents have been received.		
2. Certified copies of the priority docun	nents have been received in Ap	oplication No	
3. Copies of the certified copies of the	priority documents have been	received in this National Stage	
application from the International Bu	ıreau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	a list of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	· —	ummary (PTO-413)	
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948		)/Mail Date formal Patent Application	
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	6) Other:		

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/28/2006 has been entered.

## Claim Objections

- 2. Claim 1 is objected to because of the following informalities: Line 10 reads "said connecting member" but should be --and said connecting member--. Appropriate correction is required.
- 3. Claims 13 and 14 are objected to because of the following informalities: The preamble for both states an "apparatus" but it should be --system--. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 1-2, 4-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to

one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The recitations of "no more than a pair of plates" in claim 1 and "no more than two plates" in claim 12 does not have clear support from the originally filed disclosure.

# Claim Rejections - 35 USC § 103

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 1-2 and 4-11 are rejected as understood under 35 U.S.C. 103(a) as being unpatentable over Marandi (5,575,308) in view of Heenan et al. (3,825,186).

Marandi discloses an apparatus for restraining movement of a valve (10) embedded in the ground comprising an anchor (30) for securement to the valve and including an anchor body (31) for disposition in the ground and having no more than a pair of plates (32 and 33) spaced from one another and a connecting member (45, 46, 34, and 35)(col. 5, lines 17-23 and 45-48) carried by the anchor body connecting the

plates to one another as seen in Figures 3 and 4 (col. 4, lines 18-30) and the connecting member and the plates defining a lateral opening (area between 50 and 53) as seen in Figures 3 and 4 for receiving and engaging the valve to substantially minimize or eliminate rotational movement of the valve relative to the anchor in response to a torque applied to the valve to open or close the valve (col. 4, lines 56-65). Marandi further discloses a means (42) carried by the anchor body for engaging the valve to substantially eliminate or minimize rotational movement of the valve relative to the anchor upon rotational movement applied to the valve to open or close the valve (col. 4, lines 35-55).

Marandi claims all the features of the claimed invention except that the plates are extending generally vertically in discrete planes non-parallel to one another and which planes, when extended, intersect one another along a generally vertical line wherein the planes and the plates lying in the planes are oriented about 90° relative to one another, with the vertical line lying within the anchor body. Heenan et al. disclose having at least first and second plates (two of the four will be used since the term comprising is used in the claim)(10)(col. 3, lines 42-51) spaced from one another and extending generally vertically in discrete planes non-parallel to one another and which planes, when extended, intersect one another along a generally vertical line wherein the planes and the plates lying in the planes are oriented about 90° relative to one another with the vertical line lying within the connecting member.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the plates of Lovell onto the valve anchor of Marandi, in order to provide stabilization if a torque is applied to the anchored valve.

Regarding claim 2, Marandi-Heenan et al. in combination disclose that the connecting member lies to one side of the vertical line.

Regarding claim 4 and 15, Marandi-Heenan et al. in combination disclose that the anchor has a center of support against vertical movement, the center of support lying laterally offset from the vertical line and closely spaced to or coincident with the vertical axis.

Regarding claim 5, Marandi-Heenan et al. in combination disclose that the connecting member includes a plurality of angularly-related flats (50-53) for engagement about the valve (col. 4, 30-34)(Marandi).

Regarding claim 6, Marandi-Heenan et al. in combination disclose that the flats extend along the connecting member between upper edges of the plates, and define a recess in the connecting member (40)(Marandi) having a lateral opening for receiving the valve (col. 4, lines 30-34)(Marandi).

Regarding claim 7, Marandi-Heenan et al. in combination disclose that the connecting member includes an arm (43) having a first flat (53) in generally horizontal registration with a second flat (50), the first and second flats lying diametrically opposite one another and to one side of the vertical line as seen in Figure 4 of Marandi.

Regarding claim 8, Marandi-Heenan et al. in combination disclose that the connecting member includes a reinforcing plate extending generally horizontally between said vertically extending plates as seen in figure 4 of Marandi.

Regarding claim 9, Marandi- Heenan et al. in combination disclose that the connecting member includes a plurality of angularly-related flats facing inwardly from and formed along an inner edge of the horizontal plate, the flats defining a recess in the connecting member having a lateral opening for receiving the valve.

Regarding claim 11, Marandi-Heenan et al. in combination disclose that the plates each have a height to width ratio of 2:1 as seen in Figure 3 of Heenan et al..

9. Claims 12-13 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marandi (5,575,308) in view of Nelson (3,342,444).

Marandi discloses an in ground irrigation system comprising a valve (10) having a central vertical axis and threaded onto a pipe about the vertical axis, the valve including a valve body having a plurality of flats (60) about the axis (col. 6, 13-17); an anchor (30) for securement to the valve and including an anchor body (31) disposed in the ground and extending at least partially about the valve, the anchor body including no more than two plates (32 and 33) spaced from one another and extending generally vertically; and a connecting member (45, 46, 34, and 35)(col. 5, lines 17-23 and 45-48) carried by the anchor body connecting the plates to one another as seen in Figures 3 and 4(col. 4, lines 18-30), the connecting member and the plates defining a lateral opening for receiving and engaging the valve, the anchor body including a recess having a plurality of angularly related flats facing inwardly towards and engaging the

flats of the valve body to substantially preclude rotation of the valve relative to the anchor body in response to a torque applied to the valve to open or close the valve (col. 4, lines 56-65). Marandi further discloses a means (42) carried by the anchor body for engaging the valve to substantially eliminate or minimize rotational movement of the valve relative to the anchor upon rotational movement applied to the valve to open or close the valve (col. 4, lines 35-55).

Marandi claims all the features of the claimed invention except that the plates are in discrete planes non-parallel to one another and which planes, when extended, intersect one another along a generally vertical line laterally offset from the axis. Nelson discloses having at least first and second plates (30)(col. 2, lines 24-44) spaced from one another and extending generally vertically in discrete planes non-parallel to one another and which planes, when extended, intersect on another along a generally vertical line laterally offset from the axis as seen in Figure 4.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the plates of Nelson onto the valve anchor of Marandi, in order to compact the earth to provide stabilization if a torque is applied to the anchored valve (col. 1, lines 34-37).

Regarding claim 15, Marandi-Nelson in combination disclose that the anchor has a center of support against vertical movement, the center of support lying laterally offset from the vertical line and closely spaced to or coincident with the vertical axis.

10. Claims 12, 14, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marandi (5,575,308) in view of Lovell (3,850,128) and in further view of Nelson (3,342,444).

Marandi discloses an in ground irrigation system comprising a valve (10) having a central vertical axis and threaded onto a pipe about the vertical axis, the valve including a valve body having a plurality of flats (60) about the axis (col. 6, 13-17); an anchor (30) for securement to the valve and including an anchor body (31) disposed in the ground and extending at least partially about the valve, the anchor body including no more than two plates (32 and 33) spaced from one another and extending generally vertically; and a connecting member (45, 46, 34, and 35)(col. 5, lines 17-23 and 45-48) carried by the anchor body connecting the plates to one another as seen in Figures 3 and 4(col. 4, lines 18-30), the connecting member and the plates defining a lateral opening for receiving and engaging the valve, the anchor body including a recess having a plurality of angularly related flats facing inwardly towards and engaging the flats of the valve body to substantially preclude rotation of the valve relative to the anchor body in response to a torque applied to the valve to open or close the valve (col. 4. lines 56-65). Marandi further discloses a means (42) carried by the anchor body for engaging the valve to substantially eliminate or minimize rotational movement of the valve relative to the anchor upon rotational movement applied to the valve to open or close the valve (col. 4, lines 35-55).

Marandi claims all the features of the claimed invention except that the plates are in discrete planes non-parallel to one another and which planes, when extended,

intersect one another along a generally vertical line laterally offset from the axis. Lovell discloses having at least first and second plates (18)(col. 2, lines 24-44) spaced from one another and extending generally vertically in discrete planes non-parallel to one another. Nelson further discloses having plates (30) at the end of the radiating plates (16) plates and which planes of the plates (30)(col. 2, lines 24-44), when extended, intersect one another along a generally vertical line.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the two plates of Lovell with the spade portion of Nelson onto the anchor of Marandi, in order to add more stability with the two plates of Lovell and the pincer action of the spade plates of Nelson (col. 2, lines 44-54).

## Response to Arguments

11. Applicant's arguments filed 9/5/06 have been fully considered but they are not persuasive. The applicant argues that the prior art of record does not disclose two plates and therefore the rejection would be overcome by the limitation of "no more than a pair of plates". The examiner respectfully disagrees with this the base reference of Marandi discloses two plates and the plates are being altered to obtain the desired orientation of the plates. The final combination of the references still only has two plates.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig M. Schneider whose telephone number is (571) 272-3607. The examiner can normally be reached on M-F 8:30 -5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel can be reached on (571) 272-4929. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CMS CM5 October 31, 2006

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